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X-ray micro-computed tomography (micro-CT) (Bonse and Busch, 1996) combined with synchrotron radiation X-ray sources enables spatial resolution in the micrometre regime for three-dimensional (3D) imaging of bone microarchitecture combined with a high level of image sensitivity.

Application of high resolution synchrotron micro-CT ...

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Synchrotron-radiation Microtomography

In this context, synchrotron micro-imaging techniques offer a powerful analytical platform to reveal the two dimensional atomic, molecular and structural compositions of such complex systems, at a micrometre resolution.

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By synchrotron radiation micro-beam XRF analysis of multiple samples of fetal hairs, the Pb distribution along the longitudinal axis can be analyzed. Therefore, by analyzing the Pb distribution curves of hair, a certain period of Pb exposure history can be tracked. The main Pb sources of prenatal fetus should be from those polluted aquatics.

Study of Lead Level During Pregnancy by Application of ...

A synchrotron is a type of circular particle accelerator. It works by accelerating charged particles (electrons) through sequences of magnets until they reach almost the speed of light. These fast-moving electrons produce very bright light, called synchrotron light.

About Synchrotrons - - Diamond Light Source

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